BATTERIES 2020

A Joint European Effort towards European Competitive Automotive Batteries

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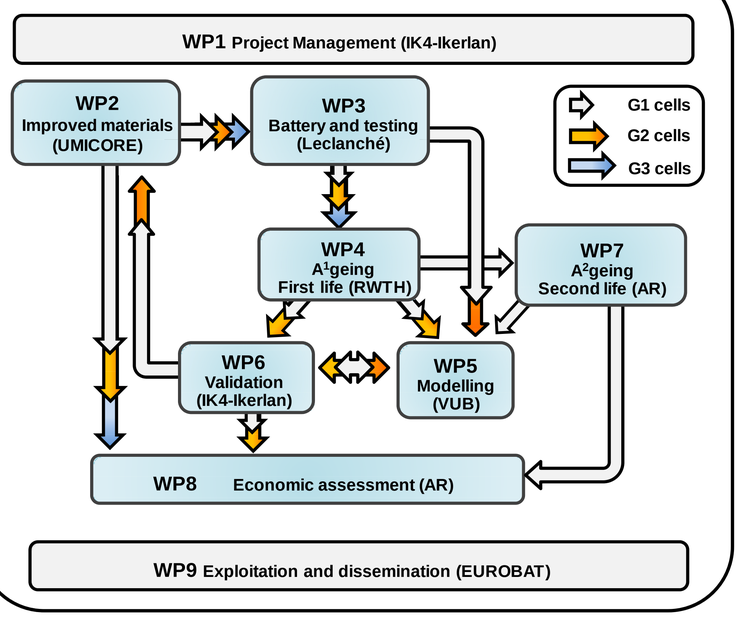
Main Objective

To improve performance, lifetime and total cost of ownership in batteries for Electric Vehicles.

Parallel Strategies:

- Focused on material development to enable high performance cells with improved durability.
- Understanding ageing phenomena and reliable lifetime prediction
- Routes to reduce battery cost.

Project Structure

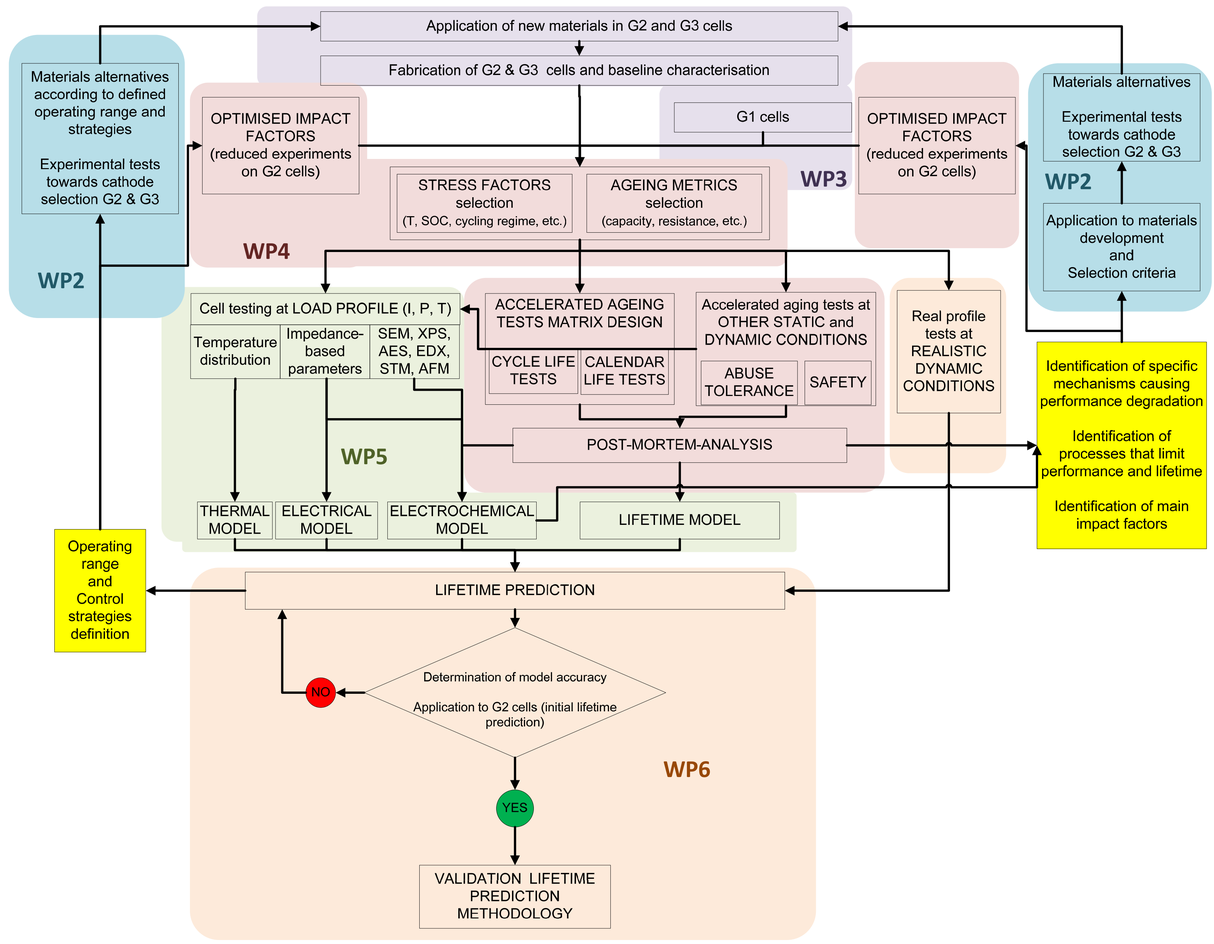


Specific project objectives

Reducing cost/kg
Increasing kWh/kg
Increasing residual value
Optimising battery size
Optimising control strategies
Increasing lifetime

→ Reducing cost/kWh

Main Research Activities



Ongoing Work

WP2: G2 materials being developed and tested

WP3: Initial characterization of G1 cells based on testing protocols agreed upon partners.
Statistical analysis BOL tests started
Initial development of G2 cells ongoing

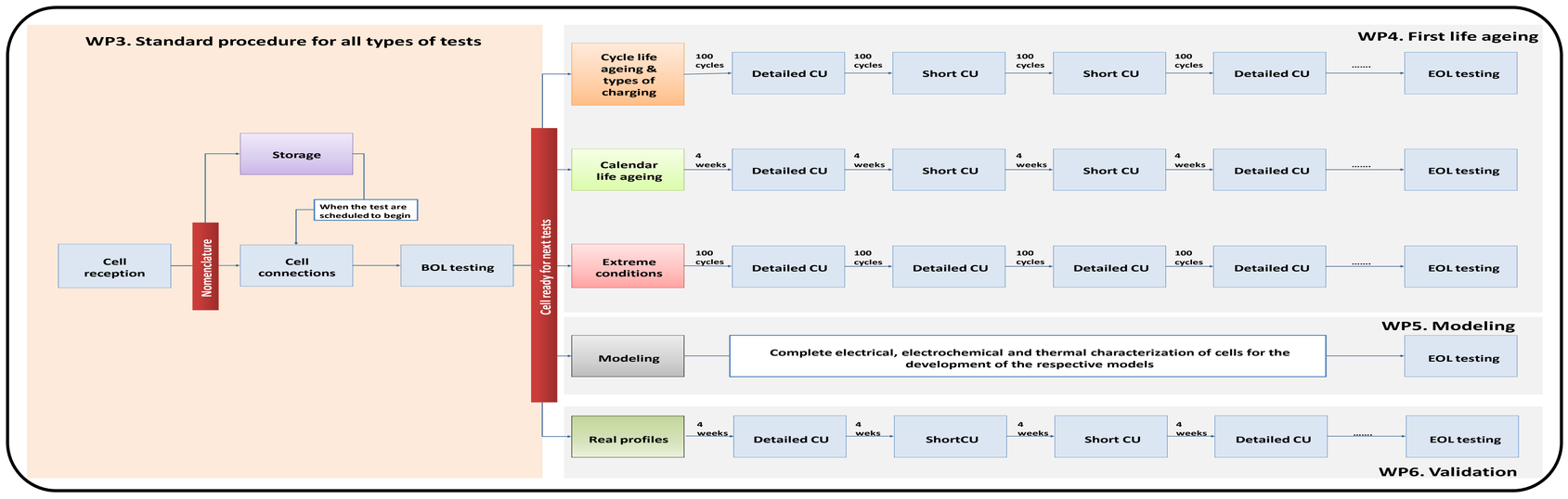
WP4: Tests defined and distributed and agreed among partners.
G1 cells under 1st life ageing tests.

WP5: Tests defined and distributed and agreed among partners.
G1 cells under thermal, electrical and electrochemical characterization tests.

WP6: Test s defined and distributed and agreed among partners.
G1 cells under testing with real driving profiles.

WP7/WP8: 2nd life applications and cost model assessment ongoing.

~ 300 cells and 180 testing channels allocated amongst testing partners!



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